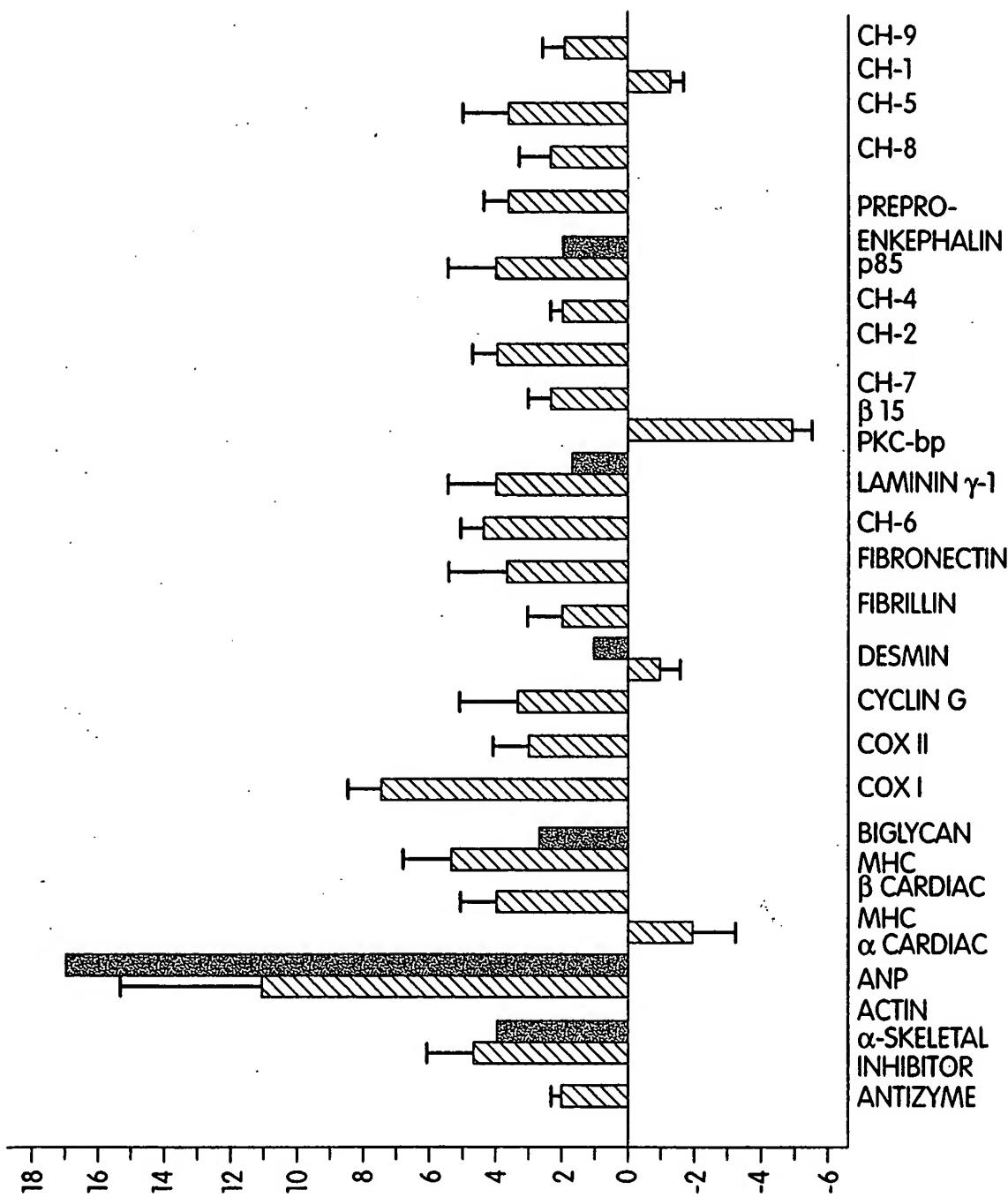


Patent Application for: METHOD OF DETECTING CARDIAC HYPERTROPHY THROUGH PROBE HYBRIDIZATION
AND GENE EXPRESSION ANALYSIS

Inventors: Shimkets *et al.*
Attorney Docket No. 09800080-0174

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Fig. 1



PANEL A

1 ggtacctggm tggccaagaa gttgcgnant ttgtntggna gagtgttaag cagtgggtg
61 gcaaacagac ctggagcaat tgttaccaca cggatgccta taggcnag atct

PANEL B

QUERY:	114	AGATCTNGCTATAGGCATCCGTGTTGGTAACAATTGCCAGGTCTGTTGCCACCCC 55
SBJCT:	665	AGATCTGGCTCCTACAGGCATCCGTGTTGGTAACAATTGCCAGGTCTGTTGCCACCCC 724
QUERY:	54	ACTGCTTACCACTCTNCCANACAAANTNCGCAACTTCTTGGCCANCCAGGTACC 1
SBJCT:	725	ACTGCTTACCACTCTTCCAGAGAAACTTCTTGGCCAGCCAGGTACC 778

PANEL C

QUERY:	113	GATCTNGCTCCTATAGGCATCCGTGTTGGTAACAATTGCCAGGTCTGTTGCCACCCC 54
SBJCT:	568	GATCTGGCTCCATAGGTATCCGGTATGACCATTCGGTCTGTTGCCACCCC 627
QUERY:	53	CTGCTTACCACTCTNCCANACAAANTNCGCAACTTCTTGGCCANCCAGGTACC 1
SBJCT:	628	CTGCTGACCAAGCCCTCCAGAGAAAGTGTGCAACCTCTTGGCCAGCCAACTGCC 680

Fig. 2

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PANEL A

1 rgatccaggg aatcctgcag ttccaggagg accaggggaa cctgggttgcg cgtcactgcc
61 ccgaggacca tcattgcctc gagcacctgc ggctccagga agacactggc gtcctcgctc
121 accaggagcc cctctggac ccatggggcc aggagctccg ttgtctccg gaagacccttt
181 ttccacccttc aatccagg

PANEL B

QUERY:	197	CCTGGATTGAAGGGTGAACGGTCTTCGGGAGACAACGGAGCTCCTGGCCCCATGGGT 138
SBJCT:	857	 CCTGGACTGAAGGGTGAAAATGGTCTTCAGGAGACAACGGAGCTCCTGGCCCCATGGGT 916
QUERY:	137	CCCAAGGGGGCTCCTGGTGACCGAGGACGCCAGGTCTTCCTGGAGCCGGAGGTGCTCGA 78
SBJCT:	917	 CCTAGAGGGGGCTCCTGGTGAAGGGAGCCAGGAGCCAGGGCTTCCTGGAGGTGCTCGA 976
QUERY:	77	GGCAATGATGGTGGCTGGGGCAGTGACGGGAACCAAGGTCCTGGTCCCTGGAACT 18
SBJCT:	977	 GGCAATGATGGTGGCTGGGGCAGTGACGGGAACCTGGTCCCTGGCCCTGGTCCCTGGAACT 1036
QUERY:	17	GCAGGATTCCCTGGATC 1
SBJCT:	1037	 GCAGGATTCCCTGGATC 1053

Fig. 3

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PANEL A

1 tcggaggatgg acagccagta ggagtagtcg ttccctggagg cgaaggttgca gacgttggtg
61 atgttgcaga agaggaagg catggctg aacttgcga gacagctgcc agccgtaccc
121 aagtccgtac catggcccc ctgcgttcct tggacataga gcagagatga cccatggtaa
181 aaaaatttgg tccctgggg acacagggg tcatctcacn gtctgactat gcctggtcac
241 aaggaaggcca tggccacag atgggttacc

PANEL B

QUERY: 270 CGTACCCCATCTGTGGACCATGGCTTCCTTGTGACCAGGCATAAGTCAGACNGTGAGATGA 211
SBJCT: 4443 GGTAACCCCATCTGTGGACCATGGCTTCCTTGTGACCAGGCATAAGTCAGAAC-AGATGA 4501

QUERY: 210 CCCGCTGTGCCCGAGGACAAAATTCTTACCATGGTACTCTCTGCTCTATGTCCA 151
SBJCT: 4502 CCCACTGTGCCCGAGGACAAAATTCTTACCATGGTACTCTCTGCTCTATGTCCA 4561

QUERY: 150 AGGAAACGGGGCCATGGTCAAGGACTTACGGCTGGCAGCTGTCTGGCCAAAGTT 91
SBJCT: 4562 AGG AACGAGGG GCCCA GG CAGGACTTGGGTACGGCAGGCTG CTGGG AAGTT

QUERY: 90 CAGGACCATGCCCTTCCTCTGCAACATCAACAAACGTCCTGCAACTTCGCCCTCCAGGAA 31
SBJCT: 4622 CAGGACCATGCCCTTCCTCTGCAACATCAACAAACGTCCTGCAACTTCGCCCTCCAGGAA 4681

QUERY: 30 CGACTACTCTTACTGGCTCTCCACTCCCGGA 1
SBJCT: 4682 CGACTACTCTTACTGGCTCTGCCCCAC CC GA

CGACTACTCTTACTGGCTCTGCCCCAC CGGCCAGGA 4711

Fig. 4

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PANEL A

1 ggtacccttca atttgttccc atgcctatcnn acccnataagg atgcctgtt ttccccagcca
61 ncnnagtgtc tgcaccctgg aggattggct gctgncttn cmtgacttt tctgttccgg
121 a

PANEL B

QUERY:	1	GGTACCTTCNATTGTTCCCATGGCTATCNCNTAACGGATGCCCTGGTTTCCCAGCCA	60
SBJCT:	687	GGTACCTTCAAATGTGTTCCATGGTACCAACTCCATAAAGATGCCCTGGTTCCCAGCCA	746
QUERY:	61	NCNTAACGTGTCTGCACCCNGNAGGATTGCCCTGCTGNCTNTGACTTTCTGTTCCGG	120
SBJCT:	747	ACCAGGTACTTGCACCCAGAAGGATTGCCCTCGACTACACAATCAGTTCTATTCCGG	806
QUERY:	121	A 121	
SBJCT:	807	A 807	

Fig. 5

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PANEL A 1 yggcccacggc ggccctgcggg gcntnancgg gttttcctca gggcaatga tataaggctc
 61 ggttacc

PANEL B

QUERY:	1	GGCCACCGGGCTGGGGCN-TNANCGGTTTTCCTCAGGCCAAATGATAT-AAGGCT	58
SBJCT:	186	GGCCACCGGGCTCGGGCTATCTACGGGTTCAGGACAAATGATGCGAAGGGT	245
QUERY:	59	CGGTAC	64
SBJCT:	246	GGTAC	250

Fig. 6

PANEL A

1 gtgcacac acatatagtt tcctgcttgt ccttnngttc tctctggagg atggacaacc
61 ctc aaaggca ctgatttgt acatttttag ctctgttcct tactcaggca gccaggctcg
121 ccaaggcccg gtccaaaggga tcc

PANEL B

QUERY: 143 GGATCCCTTGGACCGGGCCTTGGCTGAGCTGGCTGGCTGAGTAAGGANCAGAGCTANNA 84
SBJCT: 2175 GGATCCCTTGGACCGGGCCTTGGCTGAGCTGGCTGGCTGAGTAAGGCA-AGCCATCAA 2233

QUERY: 83 TGTCAAAATCAGTGCCTTTGAGGGTTGTCCATCTCCAGAGAACNNAGGACAAGCCA 24
SBJCT: 2234 TGTCAACCAATCAGTGCCTTTGAGGGTTGTCCATCTCCAAAGACATCATATGG-CAAGCA 2292

QUERY: 23 GGAAGAACTATAAGTGTGTGAC 1
SBJCT: 2293 GGAAGAACTATAAGTGTGTGCCGC 2315

Fig. 7

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PANEL A

1	rgatcccaag tcacaggcatt ttcccacgta actcgactct gaggccatag cctatccaca
61	gccttcgt cccctcgcc gccccggatgtc tcacttggtcg tgttggagac gggaaatttgc
121	taagctt

PANEL B

QUERY:	1	RGATCCCAAGTCACAGCATTTCACGTAACCTGACTCTGAGGCCATAGCCTATCCACA 60
SBJCT:	1149	+ AGATCCCAAGTCACAGCATTTCACGTAACCTGACTCTGAGGCCATAGCCTATCCACA 1208
QUERY:	61	GCCTCCCTCGTCCCCCTGGCACCGGCCAGTGTCTCACTGGCTGTGGAGACGGAAATTGCA 120
SBJCT:	1209	GCCTCCCTCGTCCCCCTGGCACCGGCCAGTGTCTCACTGGCTGTGGAAACGGAAATTGCA 1268
QUERY:	121	TAAGCTT 127
SBJCT:	1269	TAAGCTT 1275

Fig. 8

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PANEL A

1 aagcttgcac agatccaaag aaatggaacc gtgtgggac aaggcaaata aaaaactca
61 cgggtgnatt ctcnnccataa agcggaaacgg tttaaatgcg gcagtgtgan ttcttcccan
121 ttcttctctt gggatttcag gggatcc

PANEL B

QUERY: 147 GGATCCCTGAAATCCAGAGGAANTGGAAAGAANTCACACTGCATTAAACCG 88
SBJCT: 3254 GGATCCCTGAAATCCGGAGGGCTGGGAAGAA-TCAAACGTGATGCATTAAACCGCG 3312

QUERY: 87 TTTCGCTTTATGNNNGAATNGCACCCTGAGTTTTTATTGCTTGTCCCCACACGGT 28
SBJCT: 3313 TTCTGCTTTACACAGGGATCGCACCGTGAGCCGTCTGTCTATCTGTCCCACACGGT 3372

QUERY: 27 TCCATTCTTTGATCTGTGCAAGCTT 1
SBJCT: 3373 TCTGTTCTTTGGTCTGTGCAAGCTT 3399

Fig. 9

PANEL A

1	gtgcacggac tgnaggctgt gctcgccca	gtggtgactg catttgcac aggactcatt
61	tactgccacg ctctgcctct	cangtnnn annannnnn ngttnanntn
121	ntncaaattt tncaactncn tnaaggtnaa	nggnctggg ctncaagaga acgtancgttgg
181	ttttggttt gagatgggtgg aggcaagtggg	tgctgtttct ttgaacttag gggttctcc
241	ttctgttag cataggtaa gcttagc	

PANEL B

QUERY: 265	CTAGCTTCACCTATGCTCAGCAGAAGGAGAACGCCCTAGTTCAAGAGAACCCAC	206
	CTAGCTTCACCTATGCTCAGCAGAAGGAGAACGCCCTAGTTCAAGAGAACCCAC	
SBJCT: 1173	CTAGCTTCACCTATGCTCAGCAGAAGGAGAACGCCCTAGTTCAAGAGAACCCAC	1232
QUERY: 205	TGCCTCCACCATCTCAAAACCAAACAGNTAACGTTACGTTCCTTGAG-CCCAGNCNNTTNA	147
	GCCTCCACCA CTCAAAACCAAACAG TAGC TCTC TG AG CCCAG CCC TT A	
SBJCT: 1233	AGCCTCCACCAAGCTCAAAACCAAACAGGTACGCTCTGGAGGCCAGGGCCAGTGA	1292
QUERY: 146	CCCTNANGTGNAAAATTGNANNTNACMNNTNNTNNNGNACNTGGANN	87
	CC T A G AG T A A TTG A A ACC A T T G AC TGGA	
SBJCT: 1293	CCCTGAAGGAGGTAGAGGAGTTGGACGCTGACCCAGCTGATGCCAGCACATGGAAC	1352
QUERY: 86	ACCNTCAGAGGCAGAGCGTGGCAGTAATGAGTCCCTGGCAAATGCAGTCA-CCACTGG	28
	ACC TCAGAGGCAGAGCGTGGCAGT AATGAGGTCCCTGGCAAATGCA TCA CCACTGG	
SBJCT: 1353	ACCCCTCAGAGGCAGAGCGTGGCAGTGAATGAGTCCCTGGCAAATGCAATCAGGCCACTGG	1412
QUERY: 27	CCCGAGCACAGCCTNCAGTCCTGGCAC	1
	CCCG GCACAGCCT C GT CGTGCAC	
SBJCT: 1413	CCCGTGCACAGCCTGGTTCTGTGCA	1439

Fig. 10